



7 INCH WIDE AV SYSTEM DISPLAY

Manual

AVX-7000

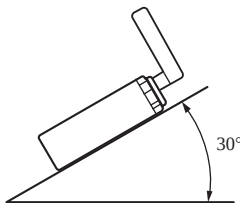
Pioneer

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Installation

Note:

- Before finally installing this product, connect the wiring temporarily, making sure it is all connected up properly, and this product and the system work properly.
- Use only the parts included with this product to ensure proper installation. The use of unauthorized parts can cause malfunctions.
- Consult with your nearest dealer if installation requires the drilling of holes or other modifications of the vehicle.
- Install this product where it does not get in the driver's way and cannot injure the passenger if there is a sudden stop, like an emergency stop.
- If installation angle exceeds 30° from horizontal, this product might not give its optimum performance.

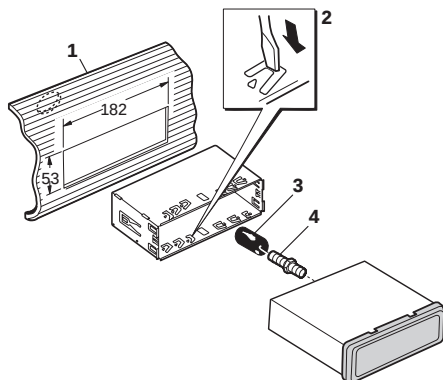


DIN Front/Rear-mount

This product can be properly installed either from "Front" (conventional DIN Front-mount) or "Rear" (DIN Rear-mount installation, utilizing threaded screw holes at the sides of product chassis). For details, refer to the following illustrated installation methods.

DIN Front-mount

■ Installation with the rubber bush



1. Dashboard

2. Holder

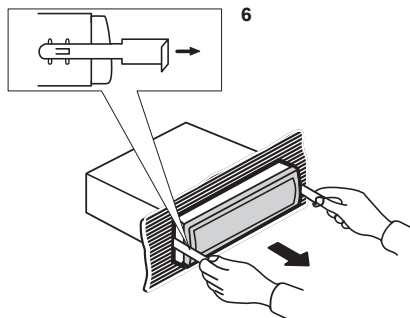
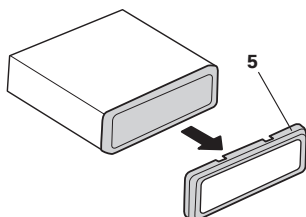
After inserting the holder into the dashboard, then select the appropriate tabs according to the thickness of the dashboard material and bend them.

(Install as firmly as possible using the top and the bottom tabs. To secure, bend the tabs 90 degrees.)

3. Rubber bush

4. Screw

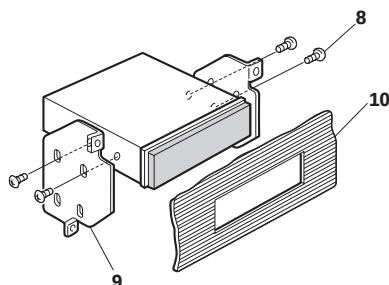
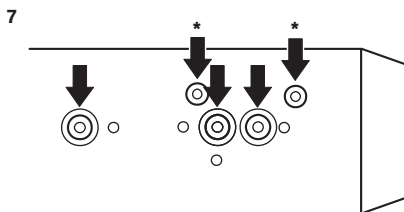
■ Removing this product.



5. Frame
Pull out to remove the frame.
(When reattaching the frame, point the side with a groove downwards and attach it.)
6. Insert the supplied extraction keys into the unit, as shown in the figure, until they click into place. Keeping the keys pressed against the sides of the unit, pull the unit out.

DIN Rear-mount

■ Installation using the screw holes on the side of this product.



● Remove the frame.

5. Frame
Pull out to remove the frame. (When reattaching the frame, point the side with a groove downwards and attach it.)

● Fastening this product to the factory radio mounting bracket.

7. Select a position where the screw holes of the bracket and the screw holes of this product become aligned (are fitted), and tighten the screws at 2 places on each side. Use any of truss screws (4×3 mm), truss screws (5×6 mm) or flush surface screws (5×6 mm), depending on the shape of the screw holes in the bracket.
* Use truss screws (4×3 mm) only.

8. Screw
9. Factory radio mounting bracket
10. Dashboard or Console

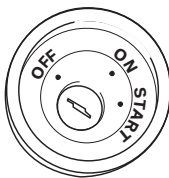
Connecting the Units

Note:

- This unit is for vehicles with a 12-volt battery and negative grounding. Before installing it in a recreational vehicle, truck, or bus, check the battery voltage.
- To avoid shorts in the electrical system, be sure to disconnect the $\ominus$ battery cable before beginning installation.
- Refer to the owner's manual for details on connecting the power amp and other products, then make connections correctly.
- Secure the wiring with cable clamps or adhesive tape. To protect the wiring, wrap adhesive tape around them where they lie against metal parts.
- Route and secure all wiring so it cannot touch any moving parts, such as the gear shift, handbrake and seat rails. Do not route wiring in places that get hot, such as near the heater outlet. If the insulation of the wiring melts or gets torn, there is a danger of the wiring short-circuiting to the vehicle body.
- Don't pass the yellow lead through a hole into the engine compartment to connect to the battery. This will damage the lead insulation and cause a very dangerous short.
- Do not shorten any leads. If you do, the protection circuit may fail to work when it should.
- Never feed power to other equipment by cutting the insulation of the power supply lead of this product and tapping into the lead. The current capacity of the lead will be exceeded, causing overheating.
- When replacing fuse, be sure to use only fuse of the rating prescribed on the fuse holder.
- If this product is installed in a vehicle that does not have an ACC (accessory) position on the ignition switch, the red lead of this product should be connected to a terminal coupled with ignition switch ON/OFF operations. If this is not done, the vehicle battery may be drained when you are away from the vehicle for several hours.



ACC position



No ACC position

CAUTION

- Cords for this product and those for other products may be different colors even if they have the same function. When connecting this product to another product, refer to the supplied Installation manuals of both products and connect cords that have the same function.

About the V.SEL cable

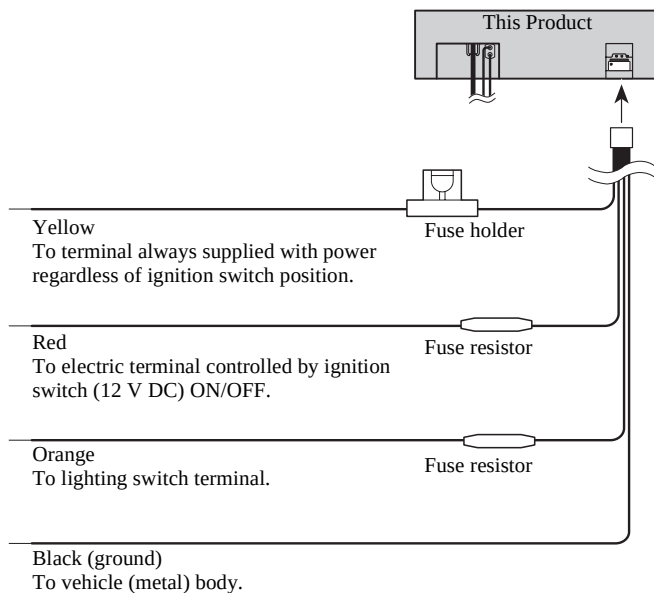
Use to connect to an Audio Visual Master Unit, TV tuner or other component featuring a V.SEL cable connection jack. If you have an Audio Visual Master Unit and a TV tuner, give priority to connection of the Audio Visual Master Unit.

Note:

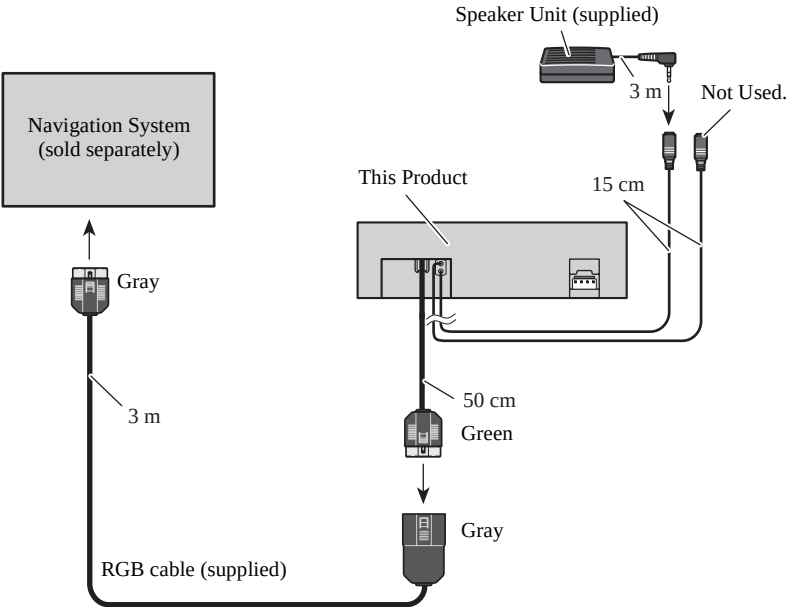
- When connecting the TV tuner refer to the TV tuner Installation Manual.

Connecting the Power Cord

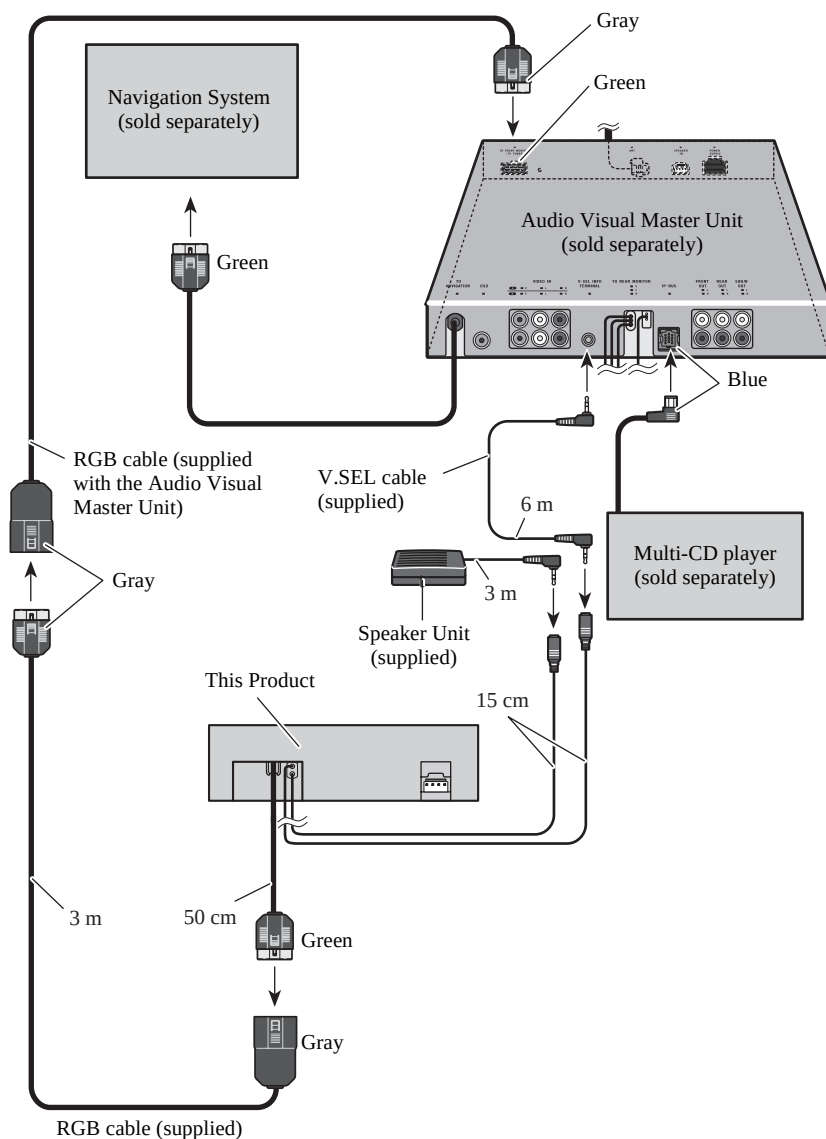
- This product conforms to new cord colors.



Connecting the System (A)



Connecting the System (B)



Note:

- Some Audio Visual Master Units may not feature a V.SEL cable connection jack. You cannot use a V.SEL cable with this kind of Audio Visual Master Unit.

About This Product

- This product complies with the EMC Directives (89/336/EEC, 92/31/EEC) and CE Marking Directive (93/68/EEC).

- Do not place the display in a position where it will impede the driver's visibility or affect the operation of your vehicle's air bags.
- This product is used to display the images from an AUDIO VISUALMASTERUNIT, etc.

Precaution

- Keep this manual handy as a reference for operating procedures and precautions.
- Always keep the volume low enough for outside sounds to be audible.
- Protect this product from moisture.

In Case of Trouble

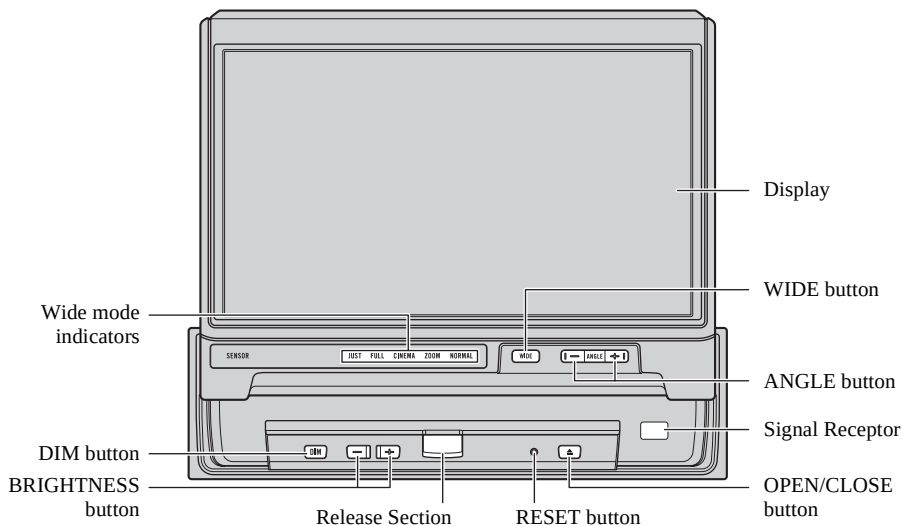
Should this product fail to operate properly, contact your dealer or nearest authorized PIONEER Service Station.

Please read all of these instructions regarding your display and retain them for future reference !

1. Read this manual fully and carefully before operating your display.
2. Keep this manual handy for future reference.
3. Pay close attention to all warnings in this manual and follow the instructions carefully.
4. Do not allow other persons to use this system until they have read and understood the operating instructions.
5. Do not install the display where it may ① obstruct the driver's vision, ② impair the performance of any of the vehicle's operating systems or safety features, including air bags, or ③ impair the driver's ability to safely operate the vehicle.
6. As with any accessory in your vehicle's interior, the display should not divert your attention from the safe operation of your vehicle. If you experience difficulty in operating the system or reading the display, please park safely before making adjustments.
7. Do not attempt to install or service your display by yourself. Installation or servicing of the display by persons without training and experience in electronic equipment and automotive accessories may be dangerous and could expose you to the risk of electric shock or other hazards.
8. Please remember to wear your seat belt at all times while operating your vehicle. If you are ever in an accident, your injuries can be considerably more severe if your seat belt is not properly buckled.

■ This Product

The following diagram shows the display when it is deployed.



Note:

- Use the remote control products for the AUDIO VISUAL MASTER UNIT by pointing them at this product's signal receptor.

Be Sure to Adjust Picture Brightness

Although the angle at which the LCD can be positioned and viewed clearly is limited because of its design, visibility can be improved by adjusting the pictures brightness. When first using the display, adjust the picture to a brightness that allows clear visibility at the angle of use. (Refer to page 16.)

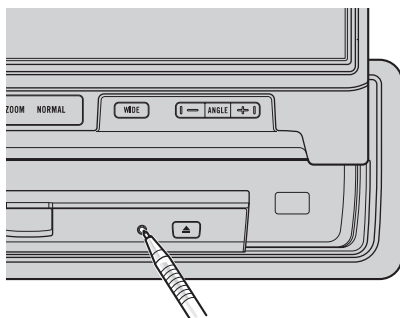
About Screen Brightness During the Daytime and Nighttime

At night, the screen may be too bright because of the surrounding darkness. Turning the vehicle's inside light on will lessen the screen's brightness.

Resetting the Microprocessor

The microprocessor must be reset under the following conditions:

- When using this product for the first time after installation.
 - When the machine fails to operate properly.
 - When strange (incorrect) messages appear on the display.
- **To reset the microprocessor, press the RESET button on the unit with a pen tip or other pointed instrument.**

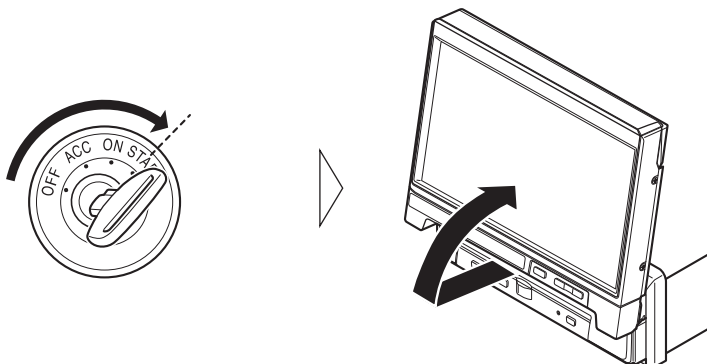


CAUTION

Do not operate this product while driving your vehicle.

Deploying the Display

- Turn your vehicle's engine ON.



The display will be automatically deployed by the automatic close/open mode.

If the display is not automatically deployed, press the OPEN/CLOSE button.

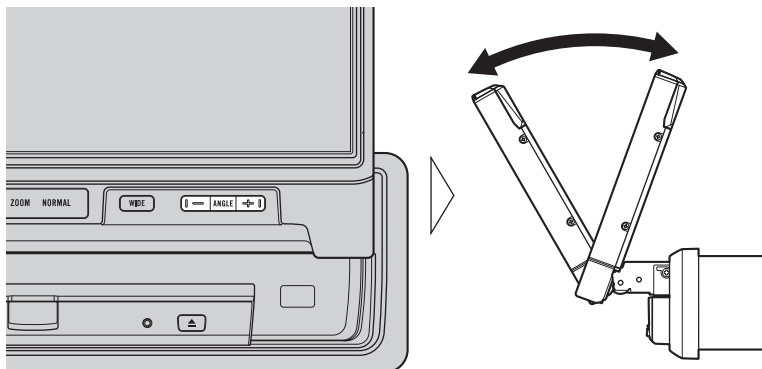
Note:

- The automatic close/open mode will operate the display as follows.
 - * When the ignition switch is turned OFF while the display is deployed, the display will be closed after approximately 6 seconds.
When the ignition switch is turned ON again (or turned to ACC), the display will be deployed automatically.
 - * When using an AUDIO VISUAL MASTER UNIT, turning the power of either of these on will deploy the display automatically.
 - * Installing the front panel will automatically deploy the display. (Refer to page 16.)
- The automatic close/open mode can be canceled. (Refer to page 16.)
- When the ignition switch is turned OFF after the display has been closed, turning the ignition switch ON again (or turning it to ACC) will not deploy the display. In this case, press the OPEN/CLOSE button to deploy the display.

Screen Angle Adjustment

The angle of this product's screen continues changing as long as you keep pressing the ANGLE button.

- Adjust the screen to an easily viewable angle.



Precaution:

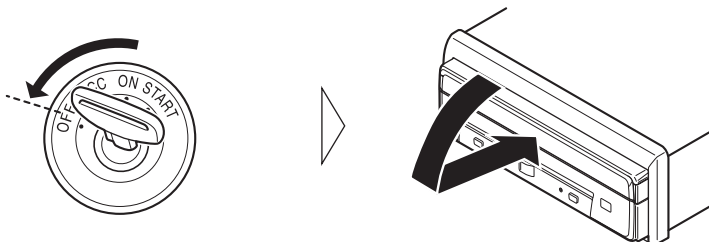
- If you can hear the display knocking against your vehicle's console or dashboard, press the ANGLE button on the (–) side to move the screen a little forward.

Note:

- When adjusting the angle, be sure to press the ANGLE button. Forcible adjusting of the display by hand may damage it.
- The adjusted angle of the display will be memorized and automatically returned to the next time the display is deployed.

Closing the Display

- Turn the vehicle's engine OFF.



The display will be automatically closed by the automatic close/open mode. If the display does not close automatically, press the OPEN/CLOSE button.

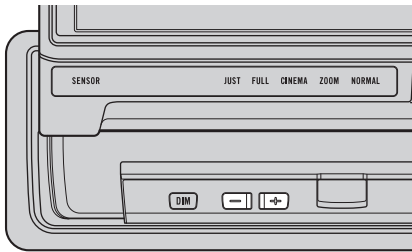
Note:

- When closing the display, check to make sure that it has closed completely. If the display has stopped halfway, leaving it like this could result in damage to it.
- The automatic close/open mode will operate the display as follows.
 - * When the ignition switch is turned OFF while the display is deployed, the display will be closed after approximately 6 seconds.
When the ignition switch is turned ON again (or turned to ACC), the display will be deployed automatically.
 - * Removing the front panel will close the display. (Refer to page 16.)
- The automatic close/open mode can be canceled. (Refer to page 16.)
- When the ignition switch is turned OFF after the display has been closed, turning the ignition switch ON again (or turning it to ACC) will not deploy the display. In this case, press the OPEN/CLOSE button to deploy the display.

Brightness Adjustment

The screen's brightness can be adjusted. (You can make different adjustments for when the vehicle's inside light is ON or OFF.)

- **Adjust to the desired brightness.**



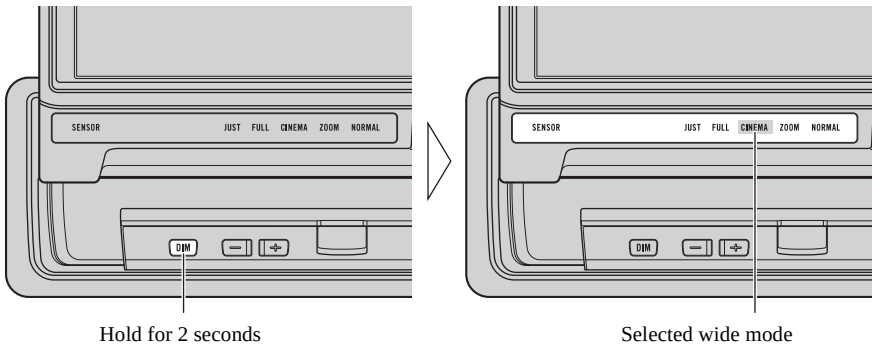
Note:

- At night, the screen may be too bright because of the surrounding darkness. Turning the vehicle's inside light on will lessen the screen's brightness.

Switching the Auto-Dimmer Mode

This function is used to automatically adjust LCD brightness according to the ambient brightness in order to always maintain proper LCD visibility.

- **Switch the Auto-Dimmer mode ON.**



Repeat the preceding operation to switch the Auto-Dimmer mode OFF.

■ **Wide Mode Indicator Illumination Color**

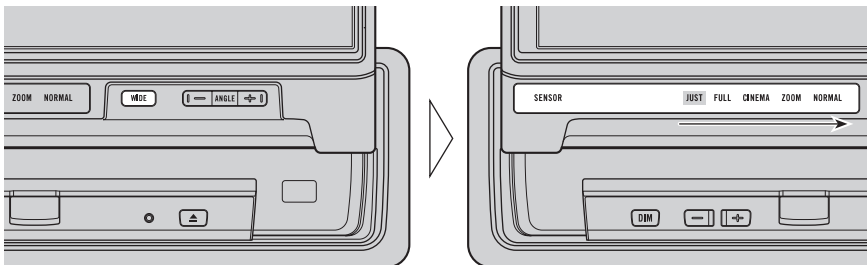
Auto-Dimmer mode	Selected mode	Other modes
ON	Red (Green*)	Green (Red*)
OFF	Green (Red*)	OFF

* When the selected illumination color is red.

Changing the Wide Mode

You can select a desired mode for enlarging a 4:3 picture to a 16:9 one.

- **Select the desired mode in the following order:**



Just (JUST) → Full (FULL) → Cinema (CINEMA) → Zoom (ZOOM) → Normal (NORMAL)

■ **Just (JUST)**

The picture is enlarged slightly at the center and the amount of enlargement increases horizontally to the ends, enabling you to enjoy a 4:3 picture without sensing any disparity even on a wide screen.

■ **Full (FULL)**

A 4:3 picture is enlarged in the horizontal direction only, enabling you to enjoy a 4:3 TV picture (normal picture) without any omissions.

■ **Cinema (CINEMA)**

A picture is enlarged by the same proportion as FULL or ZOOM in the horizontal direction and by an intermediate proportion between FULL and ZOOM in the vertical direction; ideal for a cinema-sized picture (wide-screen picture) where captions lie outside.

■ **Zoom (ZOOM)**

A 4:3 picture is enlarged in the same proportion both vertically and horizontally; ideal for a cinema-sized picture (wide-screen picture).

■ **Normal (NORMAL)**

A 4:3 picture is displayed as is, giving you no sense of disparity since its proportions are the same as that of the normal picture.

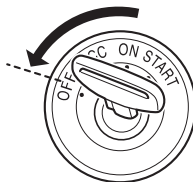
Note:

- Different settings can be memorized for each picture.
- Some displays (e.g. the AUDIO VISUAL MASTER UNIT source display) are always indicated as FULL irrespective of the setting of this mode. In this case, pressing the WIDE button causes "FULL" to blink for 4 seconds to indicate that you cannot switch the wide mode.

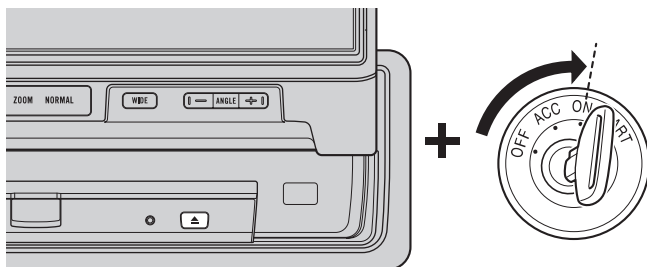
Canceling the Automatic Close/Open Mode

To prevent the display from hitting the shift lever of an automatic vehicle when it is in the "P" (park) position, or when you do not wish opening/closing of the display to be carried out automatically, please cancel the automatic close/open mode.

1. Turn the ignition switch OFF.



2. While pressing the OPEN/CLOSE button, turn the ignition switch ON (or to ACC).



The automatic close/open mode will be canceled.

Repeat the preceding operation to turn the automatic close/open mode on.

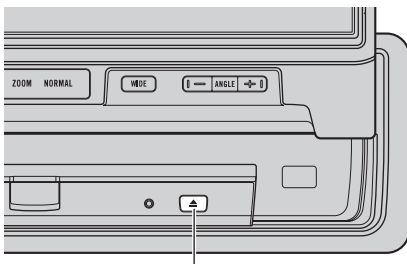
Note:

- This procedure can also be used to cancel the automatic close/open mode when the display is in the open position.
- The automatic close/open mode can also be canceled by pressing the OPEN/CLOSE button while attaching the front panel.
- When the ignition switch was turned OFF after the display was closed, the display will not open when the ignition switch is turned ON (or turned to ACC), regardless of whether the automatic close/open mode has been canceled or not. To deploy the display, press the OPEN/CLOSE button.

Switching the Illumination Color

This product is equipped with two illumination colors, green and red. You can select the desired illumination color.

- **Switch to the desired illumination color.**



Hold for 2 seconds

Repeat the preceding operation to switch to the previous color.

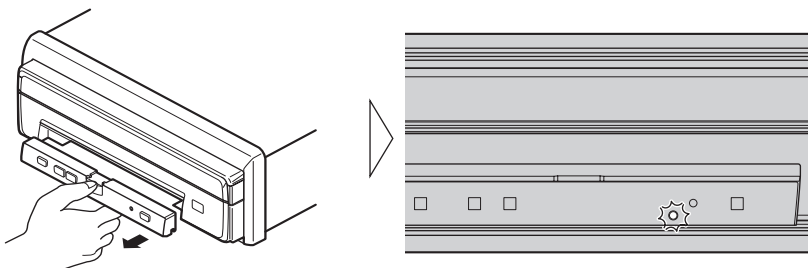
Theft Protection

The front panel of this product is detachable to discourage theft.

When the front panel is detached, this product will not be operable as the front panel contains the Signal receptor and OPEN/CLOSE button that are necessary for operation.

■ Detaching the Front Panel

- Eject the front panel.



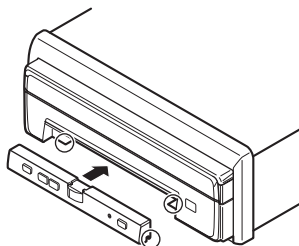
The LED indicator will flash while the front panel is being detached.

Note:

- Take care not to grip it too tightly or drop it.

■ Replacing the Front Panel

- Replace the front panel by clipping it into place.



Align the groove on the bottom of the front panel with the guide on the main body, and clip in.

Precaution:

- When replacing the front panel, avoid pressing any of the buttons.
- Avoid subjecting the front panel to excessive shocks.
- Keep the front panel out of direct sunlight and high temperatures.

CAUTION

- If moisture or foreign matter should get inside the product, turn OFF the power immediately and consult your dealer or the nearest authorized PIONEER Service Station. Using the product in this condition may result in a fire or electric shock, or other failure.
- If you notice smoke, a strange noise or smell, or any other abnormal signs from the display, turn OFF the power immediately and consult your dealer or the nearest authorized PIONEER Service Station. Using the product in this condition may result in failure of the system.
- Do not remove the rear cover of the display, as there are high-voltage components inside which may cause an electric shock. Be sure to consult your dealer or the nearest authorized PIONEER Service Station for internal inspection, adjustments or repairs.

Handling the Display

- When the display is subjected to direct sunlight for a long period of time, it will become very hot resulting in possible damage to the LCD screen. When not using this product, close the display and avoid exposing it to direct sunlight as much as possible.
- The display should be used within the temperature ranges shown below.
Operating temperature range: -20 to +60° C
Storage temperature range: -40 to +85° C
At temperatures higher or lower than the operating temperature range the display may not operate normally.
- The LCD screen of this product is exposed in order to increase its visibility within the vehicle. Please do not press strongly on it as this may damage it.
- Do not place anything on the display when it is deployed. Also, do not attempt to carry out angle adjustment, or opening/closing of the display by hand. Applying strong force to the display may damage it.
- Do not touch the LCD screen as this may scratch it or dirty it.
- Be careful not to place anything between the display and the main body when the display is opening or closing. If an object gets between the display and main body, the display may stop working.

About the Liquid Crystal Display (LCD) Screen

- If the display is near the vent of an air conditioner when it is deployed, make sure that air from the air conditioner is not blowing on it. Heat from the heater may break the LCD screen, and cool air from the cooler may cause moisture to form inside the display resulting in possible damage. Also, if the display is cooled down by the cooler, the screen may become dark, or the life span of the small fluorescent tube used inside the display may be shortened.
- Small black dots or white dots (bright dots) may appear on the LCD screen. These are due to the characteristics of the LCD screen and do not indicate a problem with the display.
- At low temperatures, the LCD screen may be dark for a while after the power is turned ON.
- The LCD screen will be difficult to see if it is exposed to direct sunlight.

Keeping the Display in Good Condition

- When removing dust from the screen or cleaning the display, first turn the system power OFF, then wipe with a soft dry cloth.
- When wiping the screen, take care not to scratch the surface. Do not use harsh or abrasive chemical cleaners.

About the Small Fluorescent Tube

- A small fluorescent tube is used inside the display to illuminate the LCD screen.
 - * The fluorescent tube should last for approximately 10,000 hours, depending on operating conditions. (Using the display at low temperatures reduces the service life of the fluorescent tube.)
 - * When the fluorescent tube reaches the end of its useful life, the screen will be dark and the image will no longer be projected. If this happens, consult your dealer or the nearest authorized PIONEER Service Station.

General

Power source	14.4 V DC (10.8 - 15.1 V allowable)
Grounding system	Negative type
Max. current consumption	2.0 A
Dimensions	
(DIN)	
(mounting size)	178 (W) × 50 (H) × 160 (D) mm
(front face)	188 (W) × 58 (H) × 27 (D) mm
(D)	
(mounting size)	178 (W) × 50 (H) × 165 (D) mm
(front face)	170 (W) × 46 (H) × 22 (D) mm
(max. salient dimension)	170 mm
(display)	170 (W) × 129 (H) × 18 (D) mm
Weight	1.7 kg

Display

Screen size/Aspect ratio	7 inch wide/16:9 (effective display area: 154 × 87 mm)
Pixels	336,960 (1,440 × 234)
Type	TFT active matrix, transmissive type
Color system	NTSC/PAL/SECAM Compatible
Operating temperature range	-20 to +60° C
Storage temperature range	-40 to +85° C
Angle Adjustment	60 – 110°
Initial setting angle:	90°

Note:

- Specifications and the design are subject to possible modification without notice due to improvements.

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